1

Assignment-7

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Download all python codes from

https://github.com/BatharajuRamana/Assignment7/ tree/main/Assignment7

and latex-tikz codes from

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1 QUESTION No-2.70

Find \mathbf{p}^{-1} . if it exists, given $\mathbf{p} = \begin{pmatrix} 10 & -2 \\ -5 & 1 \end{pmatrix}$

2 Solution

Given that

$$p = \begin{pmatrix} 10 & -2 \\ -5 & 1 \end{pmatrix} \tag{2.0.1}$$

let

$$A = \begin{pmatrix} a & b \\ c & d \end{pmatrix} \tag{2.0.2}$$

$$\det A = ad - bc \tag{2.0.3}$$

$$p = \begin{pmatrix} 10 & -2 \\ -5 & 1 \end{pmatrix} \tag{2.0.4}$$

$$\implies \det p = 10 - 10 \tag{2.0.5}$$

$$\implies 0$$
 (2.0.6)

Does not exists p⁻¹